Power Cable Insulation Compounds (Carbon Black and Peroxide Filled)

Property	Density [1]	MFR [1), 2)]	Tensile Strength [3]	Elongation at Break [3]	Relative permittivity [4] (1MHz)	Dielectric dissipation Factor [4] (1MHz)	Volume Resistivity [5]	XLPE/ Thermo-plastic	Application	Description
Method	ISO 1183-2	ISO 1133-1	ISO 37	ISO 37	IEC 60250	IEC 60250	IEC 62631-3-1	-		
unit	kg/m^3	g/10min	MPa	%	-	-	Ω･cm	-		
Grade										
NUCV-9210 XL	932	3.2	24	600	2.47	0.0003	> 10^{17}	XLPE	Jacket for Spaced Aerial Cable(SAC)	Carbon black and peroxide filled crosslinkable polyethylene compounds. Excellent dispersion of carbon black, tracking resistance, thermal stability, weather resistance and low temperature extrudability.
NUCV-9215 XL	925	2.8	23	600	2.37	0.0003	> 10^{17}	XLPE	Insulation for Area Power Distribution Wires up to 33kV	
NUCV-9217 XL	925	2.0	28	600	2.34	0.0002	> 10^{17}	XLPE		

1) Values measured without peroxide.

2) Measured at 190°C, 21.18N

3) Molding condition : compression 2mm sheet, Test pieces : ISO 37 type 1A, Test speed : 500mm/min

4) The value at solid, Test method: Liquid replacement, 23°C

5) Compression 0.5mm sheet, 1000V, 1min, 23°C

Note ･The values are dependent upon using the testing method as indicated and are offered herein as a guide in the use of compound.